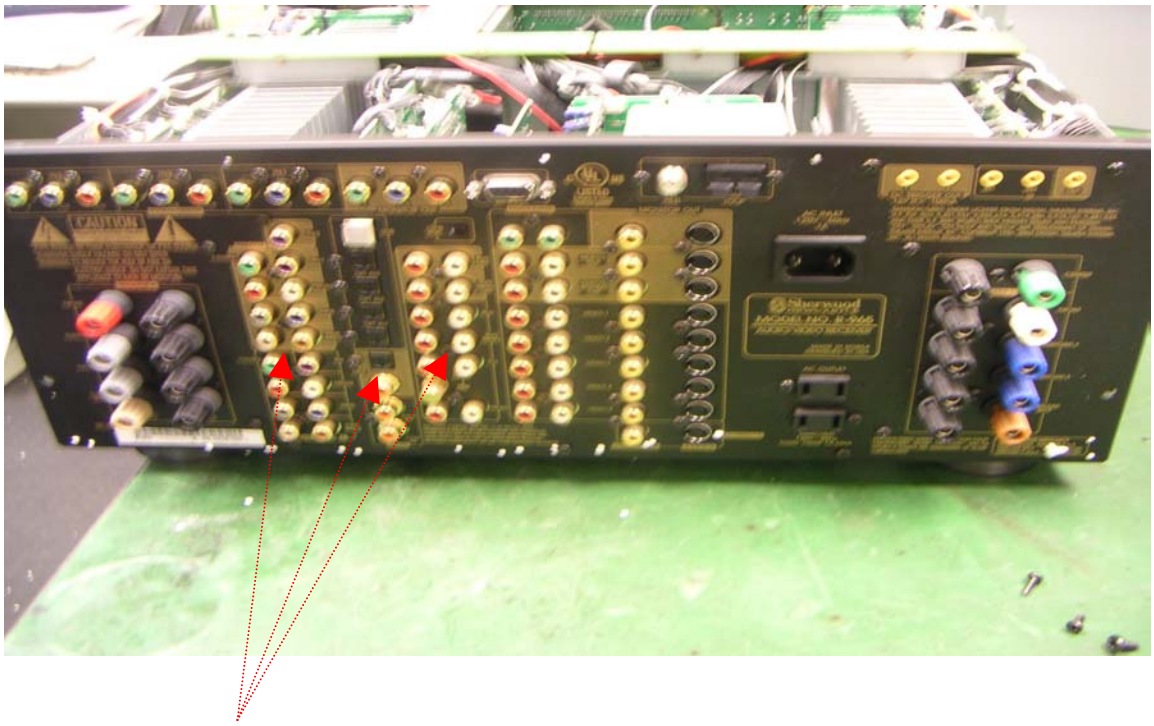
SNAP UPGRADE PROCESS AND INSTALLATION HELP GUIDE

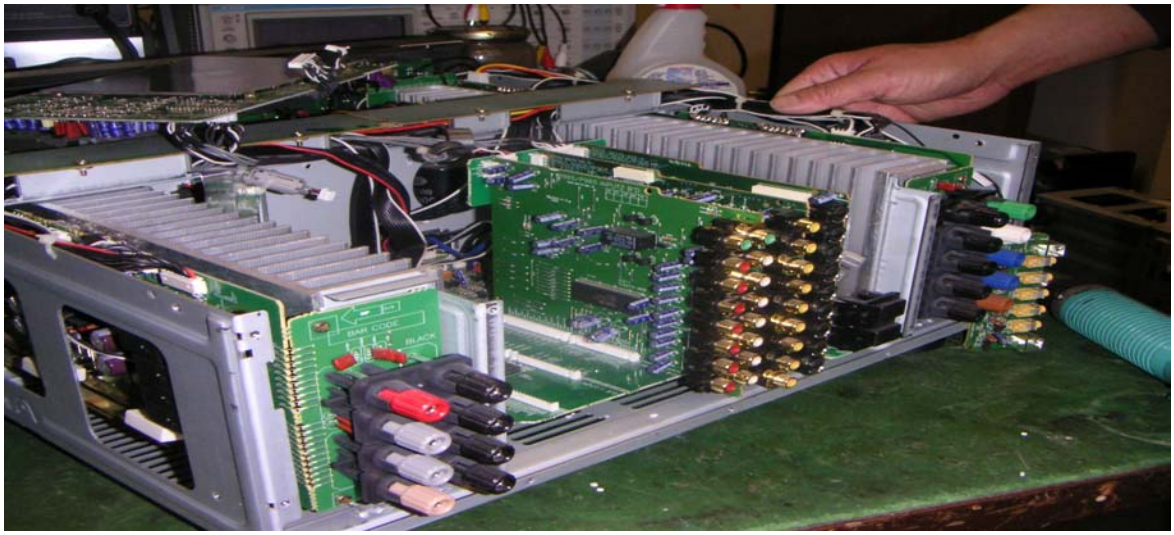
NOTE: There is a three step process to successfully complete the Chip Installation (IC202), Firmware upgrade and Re-Flashing of the DSP Processor.

IC Installation

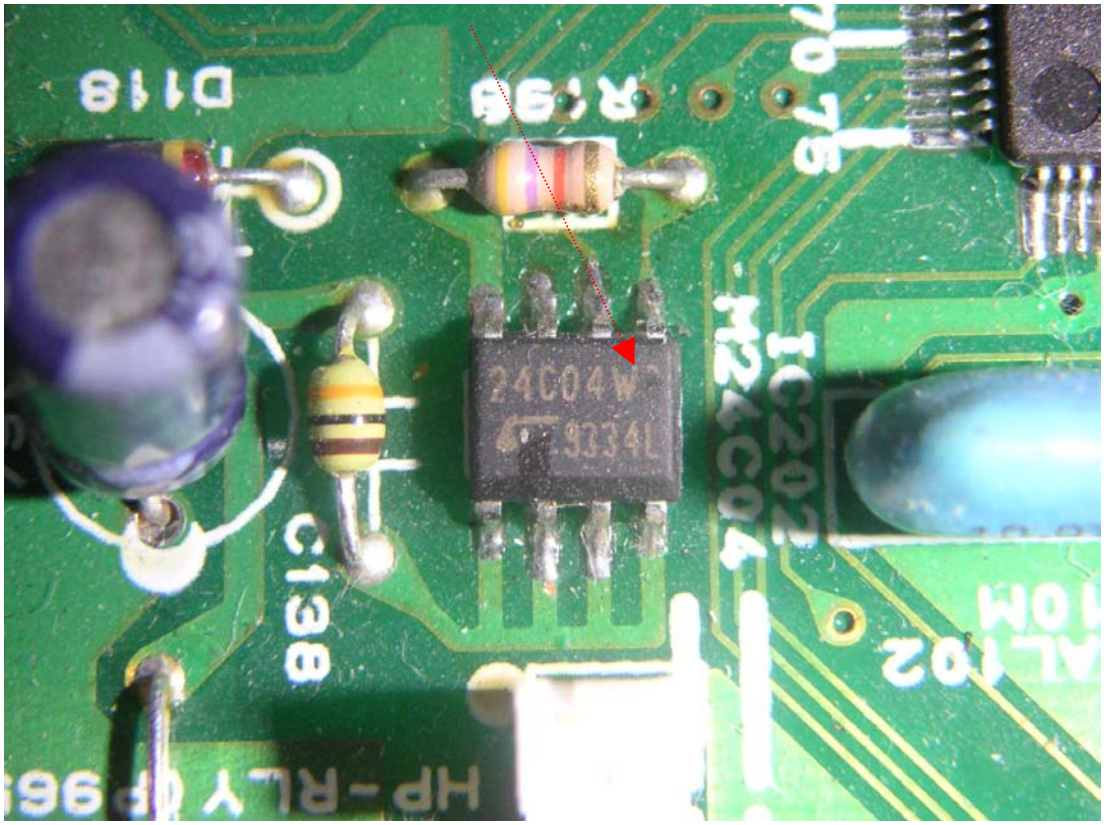
1. You must remove the Top Cover and the Back Plate to complete this modification as well as three boards from the main board.



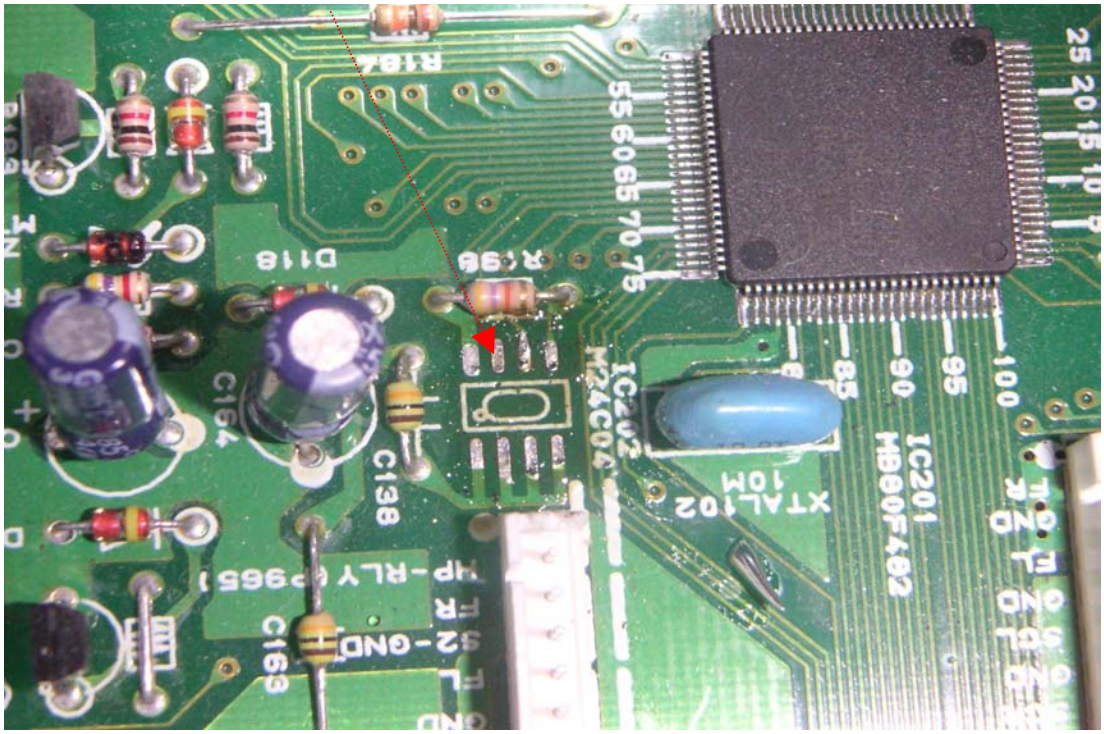
2. You only need to remove 3 PCB's. The Direct-Input/Pre-Out Card the Digital Input Card and Analog Input Card (Pointed out above). The Result should leave you looking like below.



3. Locate IC202 on the MAIN PCB.

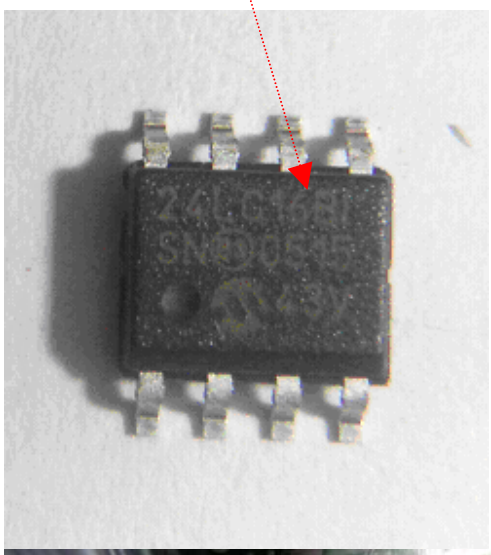


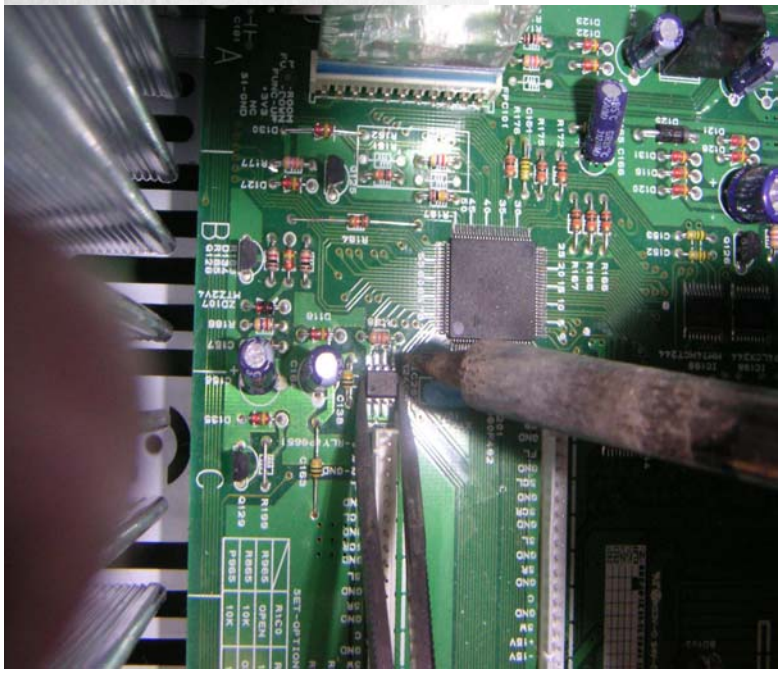
4. Unsolder IC202 from its post.



5. Install the Replacement (UPDATED IC).

Part # 24LG16BI





6. Reassemble your unit and this completes the IC Installation process. Be sure that your connections are correct and that you do not have any cold solder joints.

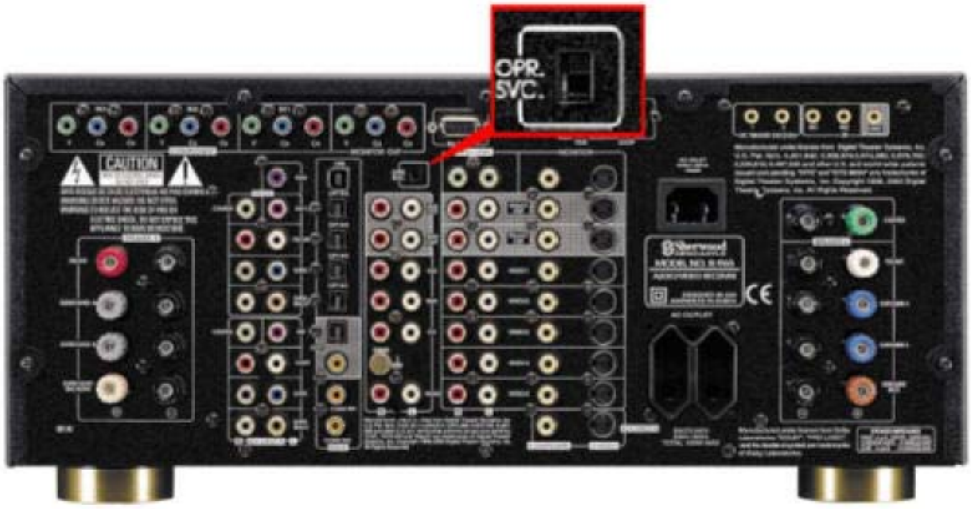
NOTE: *YOU ARE NOW READY FOR THE FIRMWARE UPGRADE. PLEASE REVIEW THE FOLLOWING STEPS BEFORE YOU ATTEMPT THE FIRMWARE UPGRADE AND DSP FLASH.*

FIRMWARE UPGRADE

1. Write down all the custom settings you have memorized in your unit as they will be lost during the upgrade procedure.

2. Be sure to follow the directions in this guide in detail.

3. With the AC cord unplugged, set the OPR/SVC switch located on the rear panel to the SVC position.



4. Connect the AC cord between the receiver and the wall outlet.

5. Power on the receiver by pressing the Power button and check that the standby buttons shows an orange light.

6. Connect the receiver to your computer with an RS232 cable.

NOTE: *The SNAP UPGRADE is only successful with an RS-232 connection. A USB cable will not allow you to flash the DSP board. BE SURE TO IMPLEMENT THE SNAP UPGRADE WITH AN RS-232 CABLE.*

7. Locate the Firmware Program (Micom Upgrade) and double click on it to open and run it .

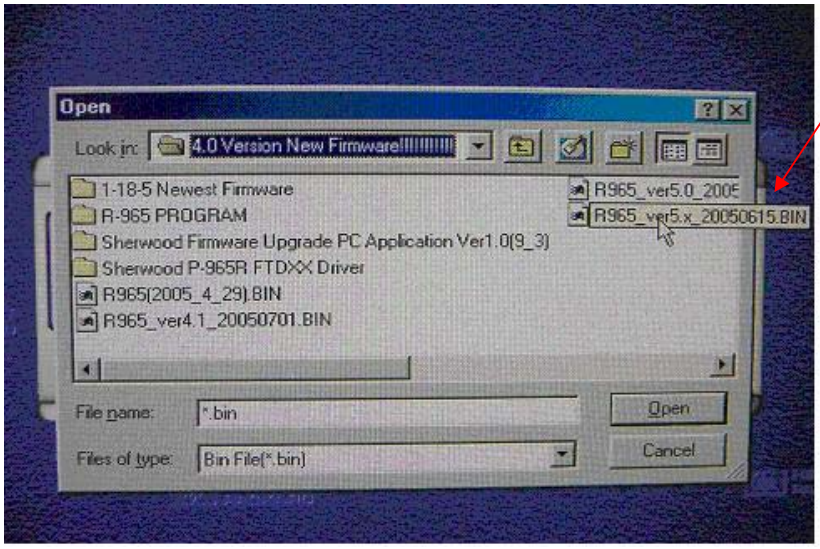
(Note : program version may be updated without prior notice for better customer support)

8. Click the 'Port Setting' button to set up the port.

9. A Pop-up Window will appear as below. (Default : COM1/9600). Based on your actual computer, you may change the COM port setting but the baud rate must be 9600.

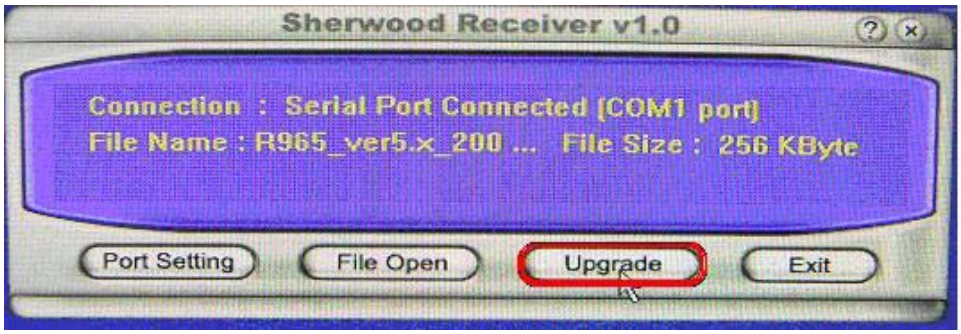
10. Click on the File Open tab and find the Firmware file.

11. Once you have found the File open it: The File name is **R965_ver5.x_20050615.BIN**

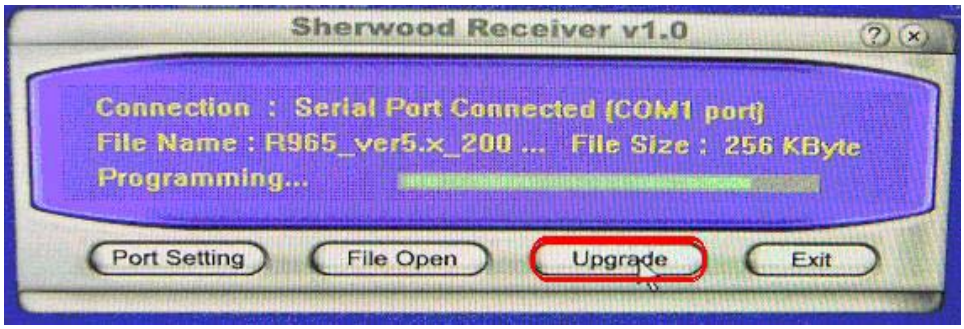


Note: *(It is recommended to save the .BIN file in a specific folder. The default setting is C:\Program files\Sherwood receiver)*

12. Click on the Upgrade button.

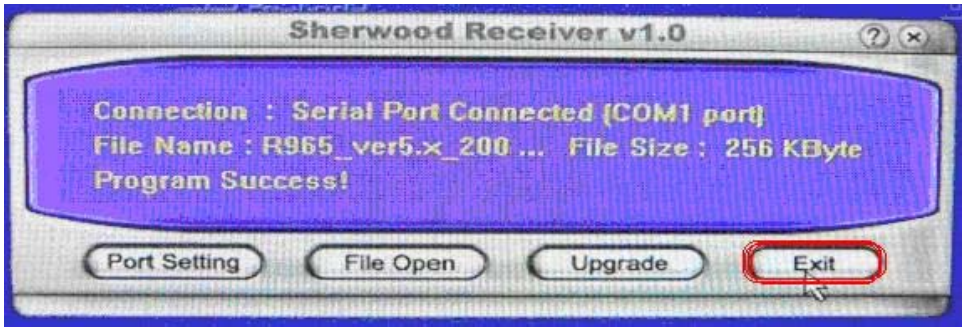


Note: *Wait until Programming has completed. At this time DO NOT DISCONNECT POWER!!!*



Note: The "Device Restart" message means something is wrong or failed in the above procedure. If you receive this message, check your cable or COM port. If the connection is good, turn the Newcastle unit Off and then On (Rapidly) within 1 second and click the Upgrade button again. (Repeat step 12 above).

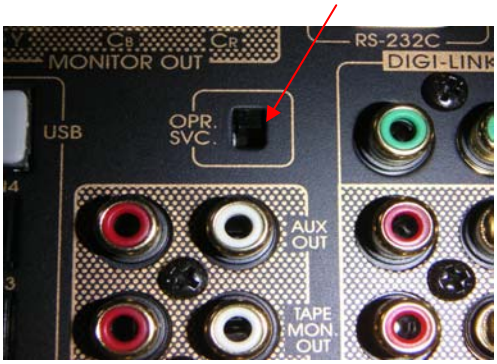
13. Once the Programming has finished is should read PROGRAM SUCCESS! At this point click on EXIT.



THIS COMPLETES THE FIRMWARE UPGRADE PROCESS. ***AT THIS POINT YOU MUST RESET YOUR UNIT.***

To RESET the R-865, R-965 or P-965 follow the steps listed below:

1. Move the SVC switch to the **OPR** position.



2. Press the "Power" Button on the front panel of the receiver.

3. With the receiver still in the "STANDBY" mode (Orange LED), hold the ROOM2 and TONE MODE buttons simultaneously. This will re-set the microprocessor.

NOTE: The RESET process will completely erase the memory in this receiver. Be sure to write down your settings or know how to setup the receiver for each device connected.

4. If the display reads 'FM 87.5MHZ' the re-set was completed successfully. If not repeat the steps above.

DSP UPGRADE

NOTE: VERY IMPORTANT!!!!!!!!!!!!!!!!!!! *DSP FLASH is only possible with an RS-232 cable connection.*

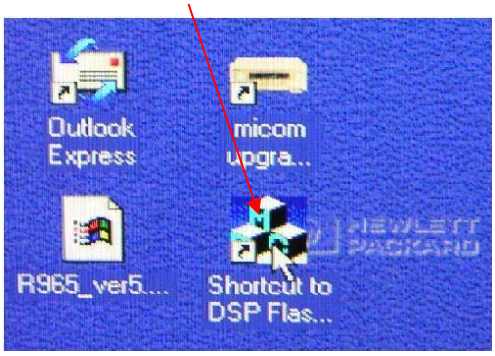
DO NOT POWER DOWN THE UNIT AT ANY TIME DURING THE DSP FLASHING PROCESS or DAMAGE WILL OCCUR!!!!!!

After you have successfully installed the new IC (IC202), upgraded the FIRMWARE and have RESET your unit we can move on.

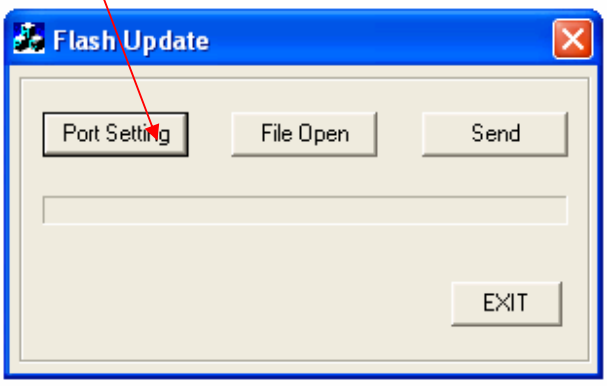
In the following steps "To flash the DSP processor" the power must be **ON** for it to take successfully. This means that the BLUE LED must be On and the LCD Display must show 87.5FM.

“TO FLASH THE DSP PROCESSOR”

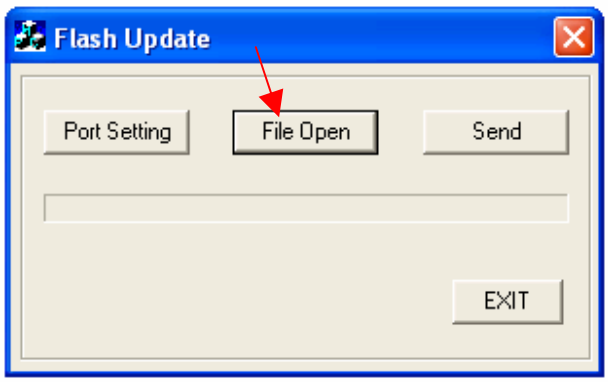
1. Open the DSP Program.



2. Select Port Setting.



3. Find your File.

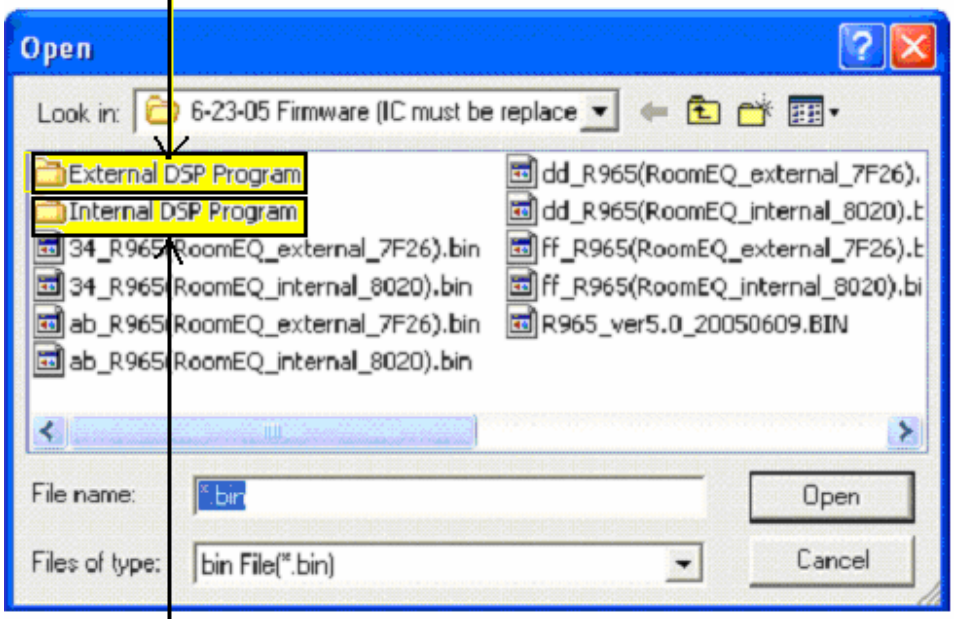


NOTE: VERY IMPORTANT!!!

If your unit has a Serial Number that starts with A04.08, A04.07, A04.06, ect... You must Flash with "External DSP Program". In other words any Birthdate before September 2004 must be Flashed with External DSP.

Our Serial Number Code is broken down like this:

Example: A04.022790007 and or A 04. 02 27 90007
A= Stock
04= Year
02= Month



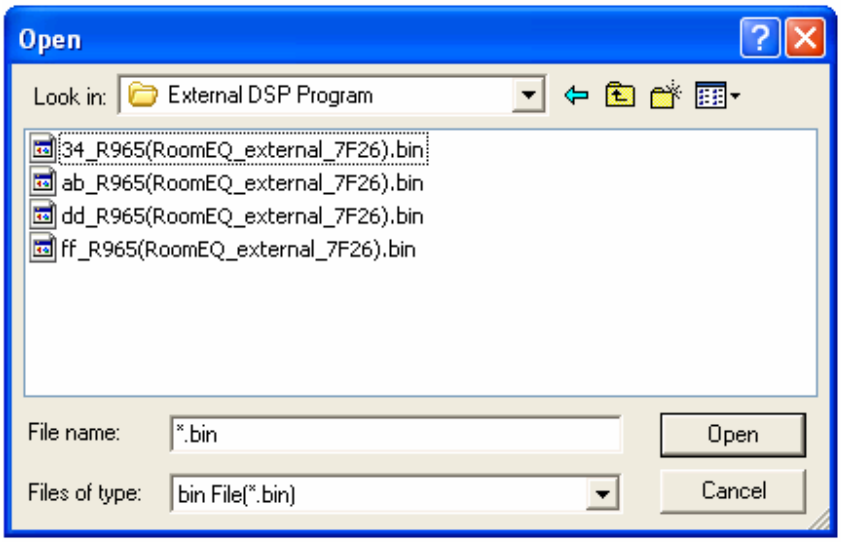
If your unit has a Serial Number that starts with A04.09, A04.10, A04.11, ect... You must Flash with "Internal DSP Program". In other words any Birthdate in September or after must be Flashed with Internal DSP.

Our Serial Number Code is broken down like this:

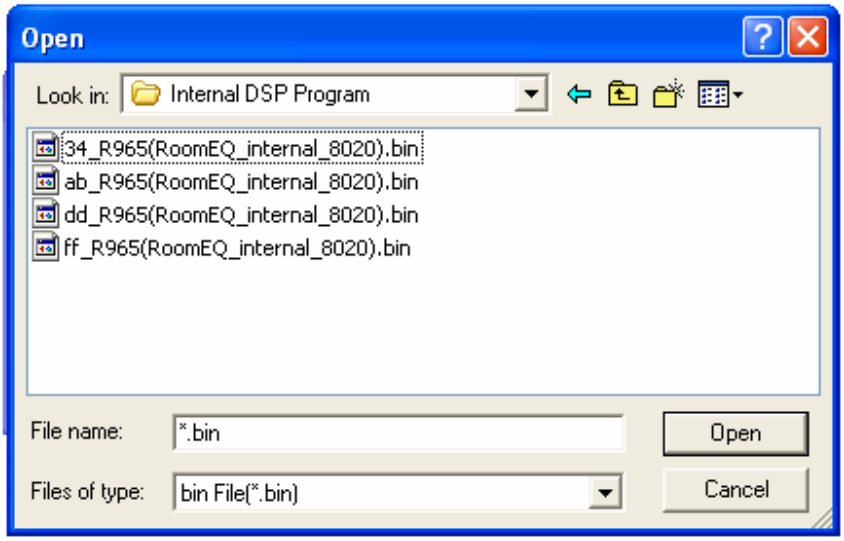
Example: A04.022790007 and or A 04. 02 27 90007
A= Stock
04= Year
02= Month

NOTE: *Depending on your Serial Number you will either Flash with Internal or External.*

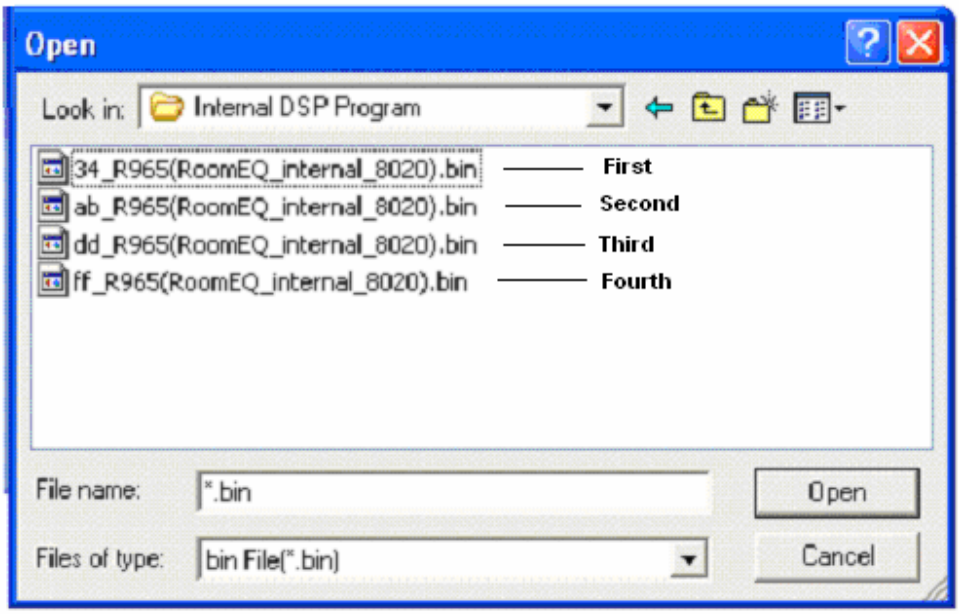
4. The External DSP Program is a folder and inside of this folder you will find 4 files. All 4 of these files must be flashed if your Serial Number falls in the external category. Start with the first and proceed until you have done all four.



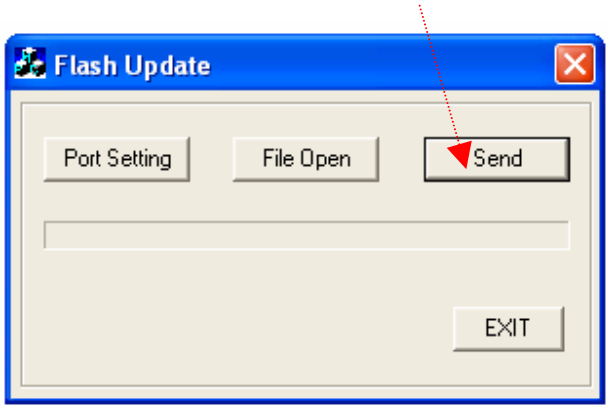
5. The INTERNAL DSP Program is a folder and inside of this folder you will find 4 files. All 4 of these files must be flashed if your Serial Number falls in the internal category. Start with the first and proceed until you have done all four.



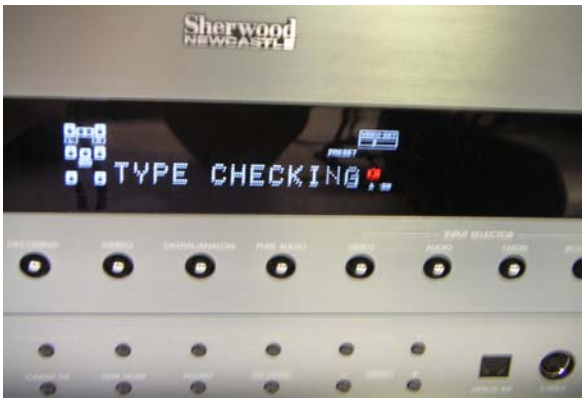
6. Flash one at a time until all 4 are done.



7. Click the Send button to continue the flash.

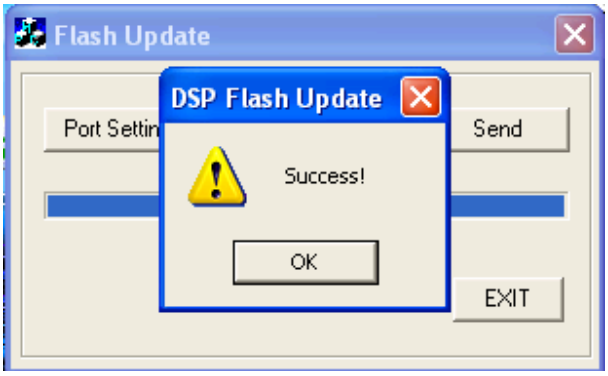


8. The program will check your system.



9. The program will erase your data base.

NOTE: *After each of the 4 files have been flashed your computer program should read Success once "type checking" has reached 100%. Be sure to flash all four and make certain that all four give you a SUCCESS indication.*



10. After all four files have been flashed your computer program should read success and you have completed the DSP FLASHING PROCESS.